

SEQUENCE LISTING



<110> BARCLAY, A. Neil
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<120> OX2 RECEPTOR HOMOLOGS (AS AMENDED)

<130> 140942000900

<140> US 10/009,445
 <141> 2001-11-13

<150> PCT US00/12998
 <151> 2000-05-11

<150> GB 9925989.7
 <151> 1999-11-03

<150> GB 9911123.9
 <151> 1999-05-13

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<170> FastSEQ for Windows Version 4.0

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 <213> Unknown

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 Rattus rattus

<220>
 <221> CDS
 <222> (91)..(1071)

<220>
 <221> mat_peptide
 <222> (162)..(1071)

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gagtgagccg ctgaaaacca gaaaaccgaa atg ctc tgc ttt tgg aga act tct 114
 Met Leu Cys Phe Trp Arg Thr Ser
 -20

cac gta gca gta ctc ttg atc tgg ggg gtc ttc gcg gct gag tca agt 162
 His Val Ala Val Leu Leu Ile Trp Gly Val Phe Ala Ala Glu Ser Ser
 -15 -10 -5 -1

tgt cct gat aag aat caa aca atg cag aac aat tca tca act atg aca 210
 Cys Pro Asp Lys Asn Gln Thr Met Gln Asn Asn Ser Ser Thr Met Thr

1	5	10	15	
gaa gtt aac act aca gtg ttt gta cag atg ggt aaa aag gct ctg ctc				258
Glu Val Asn Thr Thr Val Phe Val Gln Met Gly Lys Lys Ala Leu Leu				
20	25	30		
tgc tgc cct tct att tca ctg aca aaa gta ata tta ata aca tgg aca				306
Cys Cys Pro Ser Ile Ser Leu Thr Lys Val Ile Leu Ile Thr Trp Thr				
35	40	45		
ata acc ctc aga gga cag cct tcc tgc ata ata tcc tac aaa gca gac				354
Ile Thr Leu Arg Gly Gln Pro Ser Cys Ile Ile Ser Tyr Lys Ala Asp				
50	55	60		
aca agg gag acc cat gaa agc aac tgc tcg gac aga agc atc acc tgg				402
Thr Arg Glu Thr His Glu Ser Asn Cys Ser Asp Arg Ser Ile Thr Trp				
65	70	75	80	
gcc tcc aca cct gac ctc gct cct gac ctt cag atc agt gca gtg gcc				450
Ala Ser Thr Pro Asp Leu Ala Pro Asp Leu Gln Ile Ser Ala Val Ala				
85	90	95		
ctc cag cat gaa ggg cgt tac tca tgt gat ata gca gta cct gac ggg				498
Leu Gln His Glu Gly Arg Tyr Ser Cys Asp Ile Ala Val Pro Asp Gly				
100	105	110		
aat ttc caa aac atc tat gac ctc caa gtg ctg gtg ccc cct gaa gta				546
Asn Phe Gln Asn Ile Tyr Asp Leu Gln Val Leu Val Pro Pro Glu Val				
115	120	125		
acc cac ttt cca ggg gaa aat aga act gca gtt tgt gag gcg att gca				594
Thr His Phe Pro Gly Glu Asn Arg Thr Ala Val Cys Glu Ala Ile Ala				
130	135	140		
ggc aaa cct gct gcg cag atc tct tgg acg cca gat ggg gat tgt gtc				642
Gly Lys Pro Ala Ala Gln Ile Ser Trp Thr Pro Asp Gly Asp Cys Val				
145	150	155	160	
gct aag aat gaa tca cac agc aat ggc acc gtg act gtc cgg agc aca				690
Ala Lys Asn Glu Ser His Ser Asn Gly Thr Val Thr Val Arg Ser Thr				
165	170	175		
tgc cac tgg gag cag agc cac gtg tct gtc gtg ttc tgt gtt gtc tct				738
Cys His Trp Glu Gln Ser His Val Ser Val Val Phe Cys Val Val Ser				
180	185	190		
cac ttg aca act ggt aac cag tct ctg tct ata gaa ctg ggt aga ggg				786
His Leu Thr Thr Gly Asn Gln Ser Leu Ser Ile Glu Leu Gly Arg Gly				
195	200	205		
ggt gac caa tta tta gga tca tac att caa tac atc atc cca tct att				834
Gly Asp Gln Leu Leu Gly Ser Tyr Ile Gln Tyr Ile Ile Pro Ser Ile				
210	215	220		
att att ttg atc atc ata gga tgc att tgt ctt ttg aaa atc agt ggc				882
Ile Ile Leu Ile Ile Gly Cys Ile Cys Leu Leu Lys Ile Ser Gly				
225	230	235	240	
tgc aga aaa tgt aaa ttg cca aaa tcg gga gct act cca gat att gag				930
Cys Arg Lys Cys Lys Leu Pro Lys Ser Gly Ala Thr Pro Asp Ile Glu				
245	250	255		
gag gat gaa atg cag ccg tat gct agc tac aca gag aag agc aat cca				978
Glu Asp Glu Met Gln Pro Tyr Ala Ser Tyr Glu Lys Ser Asn Pro				

260

265

270

ctc tat gat act gtg acc acg acg gag gca cac cca gcg tca caa ggc 1026
 Leu Tyr Asp Thr Val Thr Thr Glu Ala His Pro Ala Ser Gln Gly
 275 280 285

aaa gtc aat ggc aca gac tgt ctt act ttg tca gcc atg gga atc 1071
 Lys Val Asn Gly Thr Asp Cys Leu Thr Leu Ser Ala Met Gly Ile
 290 295 300

tagaaccaag gaaaagaagt caagagacat cataattact gctttcttt cttaaactt 1131
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<213> Unknown

<220>

<223> Description of Unknown Organism: rodent; surmised
 Rattus rattus

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Gln Asn Asn Ser Ser Thr Met Thr Glu Val Asn Thr Thr Val Phe Val
 10 15 20

Gln Met Gly Lys Lys Ala Leu Leu Cys Cys Pro Ser Ile Ser Leu Thr
 25 30 35 40

Lys Val Ile Leu Ile Thr Trp Thr Ile Thr Leu Arg Gly Gln Pro Ser
 45 50 55

Cys Ile Ile Ser Tyr Lys Ala Asp Thr Arg Glu Thr His Glu Ser Asn
 60 65 70

Cys Ser Asp Arg Ser Ile Thr Trp Ala Ser Thr Pro Asp Leu Ala Pro
 75 80 85

Asp Leu Gln Ile Ser Ala Val Ala Leu Gln His Glu Gly Arg Tyr Ser
 90 95 100

Cys Asp Ile Ala Val Pro Asp Gly Asn Phe Gln Asn Ile Tyr Asp Leu
105 110 115 120

Gln Val Leu Val Pro Pro Glu Val Thr His Phe Pro Gly Glu Asn Arg
125 130 135

Thr Ala Val Cys Glu Ala Ile Ala Gly Lys Pro Ala Ala Gln Ile Ser
140 145 150

Trp Thr Pro Asp Gly Asp Cys Val Ala Lys Asn Glu Ser His Ser Asn
155 160 165

Gly Thr Val Thr Val Arg Ser Thr Cys His Trp Glu Gln Ser His Val
170 175 180

Ser Val Val Phe Cys Val Val Ser His Leu Thr Thr Gly Asn Gln Ser
185 190 195 200

Leu Ser Ile Glu Leu Gly Arg Gly Asp Gln Leu Leu Gly Ser Tyr
205 210 215

Ile Gln Tyr Ile Ile Pro Ser Ile Ile Ile Leu Ile Ile Ile Gly Cys
220 225 230

Ile Cys Leu Leu Lys Ile Ser Gly Cys Arg Lys Cys Lys Leu Pro Lys
235 240 245

Ser Gly Ala Thr Pro Asp Ile Glu Glu Asp Glu Met Gln Pro Tyr Ala
250 255 260

Ser Tyr Thr Glu Lys Ser Asn Pro Leu Tyr Asp Thr Val Thr Thr Thr
265 270 275 280

Glu Ala His Pro Ala Ser Gln Gly Lys Val Asn Gly Thr Asp Cys Leu
285 290 295

Thr Leu Ser Ala Met Gly Ile
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<210> 3

<211> 1604

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism:primate; surmised
Homo sapiens

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<221> CDS

<222> (217)..(1101)

<220>

<221> mat_peptide

<222> (295)..(1101)

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aagttgacca gagagggtct caccatgcgc acagttcctt ctgtaccagt gtggaggaaa 180

agtactgagt gaaggcaga aaaagagaaa acagaa atg ctc tgc cct tgg aga	Met Leu Cys Pro Trp Arg	234	
	-25		
act gct aac cta ggg cta ctg ttg att ttg act atc ttc tta gtg gcc		282	
Thr Ala Asn Leu Gly Leu Leu Leu Ile Leu Thr Ile Phe Leu Val Ala			
-20	-15	-10	-5
gaa gcg gag ggt gct gct caa cca aac aac tca tta atg ctg caa act		330	
Glu Ala Glu Gly Ala Ala Gln Pro Asn Asn Ser Leu Met Leu Gln Thr			
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agc aag gag aat cat gct tta gct tca agc agt tta tgt atg gat gaa		378	
Ser Lys Glu Asn His Ala Leu Ala Ser Ser Ser Leu Cys Met Asp Glu			
15	20	25	
aaa cag att aca cag aac tac tcg aaa gta ctc gca gaa gtt aac act		426	
Lys Gln Ile Thr Gln Asn Tyr Ser Lys Val Leu Ala Glu Val Asn Thr			
30	35	40	
tca tgg cct gta aag atg gct aca aat gct gtg ctt tgt tgc cct cct		474	
Ser Trp Pro Val Lys Met Ala Thr Asn Ala Val Leu Cys Cys Pro Pro			
45	50	55	60
atc gca tta aga aat ttg atc ata ata aca tgg gaa ata atc ctg aga		522	
Ile Ala Leu Arg Asn Leu Ile Ile Thr Trp Glu Ile Ile Leu Arg			
65	70	75	
ggc cag cct tcc tgc aca aaa gcc tac aag aaa gaa aca aat gag acc		570	
Gly Gln Pro Ser Cys Thr Lys Ala Tyr Lys Lys Glu Thr Asn Glu Thr			
80	85	90	
aag gaa acc aac tgt act gat gag aga ata acc tgg gtc tcc aga cct		618	
Lys Glu Thr Asn Cys Thr Asp Glu Arg Ile Thr Trp Val Ser Arg Pro			
95	100	105	
gat cag aat tcg gac ctt cag att cgt acc gtg gcc atc act cat gac		666	
Asp Gln Asn Ser Asp Leu Gln Ile Arg Thr Val Ala Ile Thr His Asp			
110	115	120	
ggg tat tac aga tgc ata atg gta aca cct gat ggg aat ttc cat cgt		714	
Gly Tyr Tyr Arg Cys Ile Met Val Thr Pro Asp Gly Asn Phe His Arg			
125	130	135	140
gga tat cac ctc caa gtg tta gtt aca cct gaa gtg acc ctg ttt caa		762	
Gly Tyr His Leu Gln Val Leu Val Thr Pro Glu Val Thr Leu Phe Gln			
145	150	155	
aac agg aat aga act gca gta tgc aag gca gtt gca ggg aag cca gct		810	
Asn Arg Asn Arg Thr Ala Val Cys Lys Ala Val Ala Gly Lys Pro Ala			
160	165	170	
gcg cat atc tcc tgg atc cca gag ggc gat tgt gcc act aag caa gaa		858	
Ala His Ile Ser Trp Ile Pro Glu Gly Asp Cys Ala Thr Lys Gln Glu			
175	180	185	
tac tgg agc aat ggc aca gtg act gtt aag agt aca tgc cac tgg gag		906	
Tyr Trp Ser Asn Gly Thr Val Thr Val Lys Ser Thr Cys His Trp Glu			
190	195	200	
gtc cac aat gtg tct acc gtg acc tgc cac gtc tcc cat ttg act ggc		954	
Val His Asn Val Ser Thr Val Thr Cys His Val Ser His Leu Thr Gly			
205	210	215	220

aac aag agt ctg tac ata gag cta ctt cct gtt cca ggt gcc aaa aaa		1002
Asn Lys Ser Leu Tyr Ile Glu Leu Leu Pro Val Pro Gly Ala Lys Lys		
225	230	235
atc agc aaa att ata tat tcc ata tat cat cct tac tat tat tat tta		1050
Ile Ser Lys Ile Ile Tyr Ser Ile Tyr His Pro Tyr Tyr Tyr Tyr Leu		
240	245	250
gac cat cgt ggg att cat ttg gtt gaa agt caa tgg ctg cag aaa		1098
Asp His Arg Gly Ile His Leu Val Val Glu Ser Gln Trp Leu Gln Lys		
255	260	265
ata taaattgaat aaaacagaat ctactccagt tggtgaggag gatgaaaatgc		1151
Ile		
agccctatgc cagctacaca gagaagaaca atcctctcta tgatactaca aacaaggta		1211
aggcatctga ggcattacaa agtgaagttg acacagacct ccatactta taagtttgtt		1271
gactctagta ccaagaaaca acaacaaacg agatacatta taattactgt ctgattttct		1331
tacagttcta gaatgaagac ttatattgaa attaggtttt ccaaggttct tagaagacat		1391
tttaatggat tctcattcat acccttgat aattggaatt tttgattctt agctgctacc		1451
agctagttct ctgaagaact gatgttatta caaagaaaat acatgccat gaccaaataat		1511
tcaaattgtg caggacagta aataatgaaa accaaatttc ctcaagaaaat aactgaagaa		1571
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<211> 295
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown Organism: primate; surmised
Homo sapiens

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-10 -5 -1 1 5

Ser Leu Met Leu Gln Thr Ser Lys Glu Asn His Ala Leu Ala Ser Ser
10 15 20

Ser Leu Cys Met Asp Glu Lys Gln Ile Thr Gln Asn Tyr Ser Lys Val
25 30 35

Leu Ala Glu Val Asn Thr Ser Trp Pro Val Lys Met Ala Thr Asn Ala
40 45 50

Val Leu Cys Cys Pro Pro Ile Ala Leu Arg Asn Leu Ile Ile Ile Thr
55 60 65 70

Trp Glu Ile Ile Leu Arg Gly Gln Pro Ser Cys Thr Lys Ala Tyr Lys
75 80 85

Lys Glu Thr Asn Glu Thr Lys Glu Thr Asn Cys Thr Asp Glu Arg Ile

90

95

100

Thr Trp Val Ser Arg Pro Asp Gln Asn Ser Asp Leu Gln Ile Arg Thr
 105 110 115

Val Ala Ile Thr His Asp Gly Tyr Tyr Arg Cys Ile Met Val Thr Pro
 120 125 130

Asp Gly Asn Phe His Arg Gly Tyr His Leu Gln Val Leu Val Thr Pro
 135 140 145 150

Glu Val Thr Leu Phe Gln Asn Arg Asn Arg Thr Ala Val Cys Lys Ala
 155 160 165

Val Ala Gly Lys Pro Ala Ala His Ile Ser Trp Ile Pro Glu Gly Asp
 170 175 180

Cys Ala Thr Lys Gln Glu Tyr Trp Ser Asn Gly Thr Val Thr Val Lys
 185 190 195

Ser Thr Cys His Trp Glu Val His Asn Val Ser Thr Val Thr Cys His
 200 205 210

Val Ser His Leu Thr Gly Asn Lys Ser Leu Tyr Ile Glu Leu Leu Pro
 215 220 225 230

Val Pro Gly Ala Lys Lys Ile Ser Lys Ile Ile Tyr Ser Ile Tyr His
 235 240 245

Pro Tyr Tyr Tyr Tyr Leu Asp His Arg Gly Ile His Leu Val Val Glu
 250 255 260

Ser Gln Trp Leu Gln Lys Ile
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<210> 5

<211> 1490

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: rodent; surmised
 Mus musculus

<220>

<221> CDS

<222> (10)..(987)

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<221> mat_peptide

<222> (85)..(987)

<400> 5

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 Ile Trp Gly Val Phe Val Ala Gly Ser Ser Cys Thr Asp Lys Asn Gln
 -10 -5 -1 1 5

aca aca cag aac aac agt tca tct cct ctg aca caa gtg aac act aca 147

Thr	Thr	Gln	Asn	Asn	Ser	Ser	Ser	Pro	Leu	Thr	Gln	Val	Asn	Thr	Thr	
10								15					20			
gtg	tct	gta	cag	ata	ggt	aca	aag	gct	ctg	ctc	tgc	tgc	ttt	tct	att	195
Val	Ser	Val	Gln	Ile	Gly	Thr	Lys	Ala	Leu	Leu	Cys	Cys	Phe	Ser	Ile	
25								30					35			
cca	ctg	aca	aaa	gca	gta	tta	atc	aca	tgg	ata	ata	aag	ctc	aga	ggc	243
Pro	Leu	Thr	Lys	Ala	Val	Leu	Ile	Thr	Trp	Ile	Ile	Lys	Leu	Arg	Gly	
40								45					50			
ctg	cca	tcc	tgc	aca	ata	gca	tac	aaa	gta	gat	aca	aag	acc	aat	gaa	291
Leu	Pro	Ser	Cys	Thr	Ile	Ala	Tyr	Lys	Val	Asp	Thr	Lys	Thr	Asn	Glu	
55								60					65			
acc	agc	tgc	ttg	ggc	agg	aac	atc	acc	tgg	gcc	tcc	aca	cct	gac	cac	339
Thr	Ser	Cys	Leu	Gly	Arg	Asn	Ile	Thr	Trp	Ala	Ser	Thr	Pro	Asp	His	
70								75					80			85
agt	cct	gaa	ctt	cag	atc	agt	gca	gtg	acc	ctc	cag	cat	gag	ggg	act	387
Ser	Pro	Glu	Leu	Gln	Ile	Ser	Ala	Val	Thr	Leu	Gln	His	Glu	Gly	Thr	
90								95					100			
tac	aca	tgt	gag	aca	gta	aca	cct	gaa	ggg	aat	ttt	gaa	aaa	aac	tat	435
Tyr	Thr	Cys	Glu	Thr	Val	Thr	Pro	Glu	Gly	Asn	Phe	Glu	Lys	Asn	Tyr	
105								110					115			
gac	ctc	caa	gtg	ctg	gtg	ccc	cct	gaa	gta	acc	tac	ttt	cca	gag	aaa	483
Asp	Leu	Gln	Val	Leu	Val	Pro	Pro	Glu	Val	Thr	Tyr	Phe	Pro	Glu	Lys	
120								125					130			
aac	aga	tct	gca	gtc	tgt	gag	gca	atg	gca	ggc	aag	cct	gct	gca	cag	531
Asn	Arg	Ser	Ala	Val	Cys	Glu	Ala	Met	Ala	Gly	Lys	Pro	Ala	Ala	Gln	
135								140					145			
atc	tct	tgg	tct	cca	gat	ggg	gac	tgt	gtc	act	acg	agt	gaa	tca	cac	579
Ile	Ser	Trp	Ser	Pro	Asp	Gly	Asp	Cys	Val	Thr	Thr	Ser	Glu	Ser	His	
150								155					160			165
agc	aat	ggc	act	gtg	act	gtc	agg	agc	aca	tgc	cac	tgg	gag	cag	aac	627
Ser	Asn	Gly	Thr	Val	Thr	Val	Arg	Ser	Thr	Cys	His	Trp	Glu	Gln	Asn	
170								175					180			
aat	gtg	tct	gat	gtg	tcc	tgc	att	gtc	tct	cat	ttg	act	ggt	aac	caa	675
Asn	Val	Ser	Asp	Val	Ser	Cys	Ile	Val	Ser	His	Leu	Thr	Gly	Asn	Gln	
185								190					195			
tct	ctg	tcc	ata	gaa	ctg	agt	aga	ggt	ggt	aac	caa	tca	tta	cga	cca	723
Ser	Leu	Ser	Ile	Glu	Leu	Ser	Arg	Gly	Gly	Asn	Gln	Ser	Leu	Arg	Pro	
200								205					210			
tat	att	cca	tac	atc	ata	cca	tca	att	atc	att	ttg	atc	atc	ata	gga	771
Tyr	Ile	Pro	Tyr	Ile	Ile	Pro	Ser	Ile	Ile	Ile	Leu	Ile	Ile	Ile	Gly	
215								220					225			
tgc	att	tgt	ctt	ttg	aaa	atc	agt	ggc	ttc	aga	aaa	tgc	aaa	ttg	cca	819
Cys	Ile	Cys	Leu	Leu	Lys	Ile	Ser	Gly	Phe	Arg	Lys	Cys	Lys	Leu	Pro	
230								235					240			245
aaa	tta	gaa	gct	act	tca	gct	att	gag	gag	gat	gaa	atg	cag	cct	tat	867
Lys	Leu	Glu	Ala	Thr	Ser	Ala	Ile	Glu	Glu	Asp	Glu	Met	Gln	Pro	Tyr	
250								255					260			
gct	agc	tat	aca	gag	aag	agc	aat	cca	ctc	tat	gat	act	gtg	act	aag	915

Ala Ser Tyr Thr Glu Lys Ser Asn Pro Leu Tyr Asp Thr Val Thr Lys
265 270 275

gtg gag gca ttt cca gta tca caa ggc gaa gtc aat ggc aca gac tgc 963
Val Glu Ala Phe Pro Val Ser Gln Gly Glu Val Asn Gly Thr Asp Cys
280 285 290

ctt act ttg tcg gcc att gga atc tagaaccaag aaaaaagaag tcaagagaca 1017
Leu Thr Leu Ser Ala Ile Gly Ile
295 300

tcataattac tgcttgctt tctttaaaat tcgacaatgg aaggactact tggaaattag 1077
ctcttccaaa gctattaaaa agcacaaatg ttctaattgaa attgcattta aattctatca 1137
tttggaaagttt ggaatctctg ctgctacctg ttaatttttag gaagaactga tttaatttatt 1197
acaaagaaaag cacatggtaa tggtgaataa tcaagttgtg caataaagta tcatgaaaac 1257
ttagtttcctt caagaaataa ctgcaggagg aacaatcatc actaaagaat ttcatgtgag 1317
ttcttacaaa aaaattccta tgtatacatg actatggtat gtgtgtccaa ttacatgttt 1377
atttacaaat gtgtatatat gcacacattt gctttcagg acatctcctt gtaaaaaaca 1437
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<210> 6

<211> 326

<212> PRT

<213> Unknown

<220>

<223> Description of Unknown Organism: rodent; surmised
Mus musculus

<400> 6

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Gly Val Phe Val Ala Gly Ser Ser Cys Thr Asp Lys Asn Gln Thr Thr
-5 -1 1 5

Gln Asn Asn Ser Ser Ser Pro Leu Thr Gln Val Asn Thr Thr Val Ser
10 15 20

Val Gln Ile Gly Thr Lys Ala Leu Leu Cys Cys Phe Ser Ile Pro Leu
25 30 35

Thr Lys Ala Val Leu Ile Thr Trp Ile Ile Lys Leu Arg Gly Leu Pro
40 45 50 55

Ser Cys Thr Ile Ala Tyr Lys Val Asp Thr Lys Thr Asn Glu Thr Ser
60 65 70

Cys Leu Gly Arg Asn Ile Thr Trp Ala Ser Thr Pro Asp His Ser Pro
75 80 85

Glu Leu Gln Ile Ser Ala Val Thr Leu Gln His Glu Gly Thr Tyr Thr
90 95 100

Cys Glu Thr Val Thr Pro Glu Gly Asn Phe Glu Lys Asn Tyr Asp Leu
105 110 115

Gln Val Leu Val Pro Pro Glu Val Thr Tyr Phe Pro Glu Lys Asn Arg
120 125 130 135

Ser Ala Val Cys Glu Ala Met Ala Gly Lys Pro Ala Ala Gln Ile Ser
140 145 150

Trp Ser Pro Asp Gly Asp Cys Val Thr Thr Ser Glu Ser His Ser Asn
155 160 165

Gly Thr Val Thr Val Arg Ser Thr Cys His Trp Glu Gln Asn Asn Val
170 175 180

Ser Asp Val Ser Cys Ile Val Ser His Leu Thr Gly Asn Gln Ser Leu
185 190 195

Ser Ile Glu Leu Ser Arg Gly Gly Asn Gln Ser Leu Arg Pro Tyr Ile
200 205 210 215

Pro Tyr Ile Ile Pro Ser Ile Ile Ile Leu Ile Ile Ile Gly Cys Ile
220 225 230

Cys Leu Leu Lys Ile Ser Gly Phe Arg Lys Cys Lys Leu Pro Lys Leu
235 240 245

Glu Ala Thr Ser Ala Ile Glu Glu Asp Glu Met Gln Pro Tyr Ala Ser
250 255 260

Tyr Thr Glu Lys Ser Asn Pro Leu Tyr Asp Thr Val Thr Lys Val Glu
265 270 275

Ala Phe Pro Val Ser Gln Gly Glu Val Asn Gly Thr Asp Cys Leu Thr
280 285 290 295

Leu Ser Ala Ile Gly Ile
300

<210> 7

<211> 1010

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: primate; surmised
Homo sapiens

<220>

<221> CDS

<222> (1)..(750)

<400> 7

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1 5 10 15

ggt aac att tca cag cct gta ctg atg gat ata aat gct gtg ctt tgt 96
Gly Asn Ile Ser Gln Pro Val Leu Met Asp Ile Asn Ala Val Leu Cys
20 25 30

tgc cct cct att gca tta aga aat ttg atc ata ata aca tgg gaa ata 144

Cys Pro Pro Ile Ala Leu Arg Asn	Leu Ile Ile Ile Thr Trp Glu Ile		
35	40	45	
atc ctg aga ggc cag cct tcc tgc aca aaa gcc tac aag aaa gaa aca	Ile Leu Arg Gly Gln Pro Ser Cys Thr Lys Ala Tyr Lys Lys Glu Thr	192	
50	55	60	
aat gag acc aag gaa acc aac tgt act gtt gag aga ata acc tgg gtc	Asn Glu Thr Lys Glu Thr Asn Cys Thr Val Glu Arg Ile Thr Trp Val	240	
65	70	75	80
tct aga cct gat cag aat tcg gac ctt cag att cgt ccg gtg gac acc	Ser Arg Pro Asp Gln Asn Ser Asp Leu Gln Ile Arg Pro Val Asp Thr	288	
85	90	95	
act cat gac ggg tat tac aga ggc ata gtg gta aca cct gat ggg aat	Thr His Asp Gly Tyr Tyr Arg Gly Ile Val Val Thr Pro Asp Gly Asn	336	
100	105	110	
ttc cat cgt gga tat cac ctc caa gtg tta gtt aca ccc gaa gtg aac	Phe His Arg Gly Tyr His Leu Gln Val Leu Val Thr Pro Glu Val Asn	384	
115	120	125	
cta ttt caa agc agg aat ata act gca gta tgc aag gca gtt aca ggg	Leu Phe Gln Ser Arg Asn Ile Thr Ala Val Cys Lys Ala Val Thr Gly	432	
130	135	140	
aag cca gct gcc cag atc tcc tgg atc cca gag gga tct att ctt gcc	Lys Pro Ala Ala Gln Ile Ser Trp Ile Pro Glu Gly Ser Ile Leu Ala	480	
145	150	155	160
act aag caa gaa tac tgg ggc aat ggc aca gtg acg gtt aag agt aca	Thr Lys Gln Glu Tyr Trp Gly Asn Gly Thr Val Thr Val Lys Ser Thr	528	
165	170	175	
tgc ccc tgg gag ggc cac aag tct act gtg acc tgc cat gtc tcc cat	Cys Pro Trp Glu Gly His Lys Ser Thr Val Thr Cys His Val Ser His	576	
180	185	190	
ttg act ggc aac aag agt ctg tcc gta aag ttg aat tca ggt ctc aga	Leu Thr Gly Asn Lys Ser Leu Ser Val Lys Leu Asn Ser Gly Leu Arg	624	
195	200	205	
acc tca gga tct cca gcg ttg tcc tta ctg atc att ctt tat gtg aaa	Thr Ser Gly Ser Pro Ala Leu Ser Leu Leu Ile Ile Leu Tyr Val Lys	672	
210	215	220	
ctc tct ctt ttt gtg gtc att ctg gtc acc aca gga ttt gtt ttc ttc	Leu Ser Leu Phe Val Val Ile Leu Val Thr Thr Gly Phe Val Phe Phe	720	
225	230	235	240
cag agg ata aat cat gtc aga aaa gtt ctt taaaagaagaa ggaagggtct	Gln Arg Ile Asn His Val Arg Lys Val Leu	770	
245	250		
tcttttgctt ctcccccttg tctctggact gcaacattgg tgagatgagt gatggtccag		830	
cagtgaacctt gggccatgga tcatgttaag gatagaagcc actcagtagg atagaagaaa		890	
agaaagatgg aagaaggatc ctgggcttga tgaccatgaa gttcccttat aaaccctcaa		950	
ccacctattc attgacttct tttgtttag agtgaataaa attttgtca tgccagtgtt		1010	

<210> 8
 <211> 250
 <212> PRT
 <213> Unknown

<220>
 <223> Description of Unknown Organism: primate; surmised
 Homo sapiens

<400> 8
 Met Gly Gly Lys Gln Met Thr Gln Asn Tyr Ser Thr Ile Phe Ala Glu
 1 5 10 15

Gly Asn Ile Ser Gln Pro Val Leu Met Asp Ile Asn Ala Val Leu Cys
 20 25 30

Cys Pro Pro Ile Ala Leu Arg Asn Leu Ile Ile Ile Thr Trp Glu Ile
 35 40 45

Ile Leu Arg Gly Gln Pro Ser Cys Thr Lys Ala Tyr Lys Lys Glu Thr
 50 55 60

Asn Glu Thr Lys Glu Thr Asn Cys Thr Val Glu Arg Ile Thr Trp Val
 65 70 75 80

Ser Arg Pro Asp Gln Asn Ser Asp Leu Gln Ile Arg Pro Val Asp Thr
 85 90 95

Thr His Asp Gly Tyr Tyr Arg Gly Ile Val Val Thr Pro Asp Gly Asn
 100 105 110

Phe His Arg Gly Tyr His Leu Gln Val Leu Val Thr Pro Glu Val Asn
 115 120 125

Leu Phe Gln Ser Arg Asn Ile Thr Ala Val Cys Lys Ala Val Thr Gly
 130 135 140

Lys Pro Ala Ala Gln Ile Ser Trp Ile Pro Glu Gly Ser Ile Leu Ala
 145 150 155 160

Thr Lys Gln Glu Tyr Trp Gly Asn Gly Thr Val Thr Val Lys Ser Thr
 165 170 175

Cys Pro Trp Glu Gly His Lys Ser Thr Val Thr Cys His Val Ser His
 180 185 190

Leu Thr Gly Asn Lys Ser Leu Ser Val Lys Leu Asn Ser Gly Leu Arg
 195 200 205

Thr Ser Gly Ser Pro Ala Leu Ser Leu Leu Ile Ile Leu Tyr Val Lys
 210 215 220

Leu Ser Leu Phe Val Val Ile Leu Val Thr Thr Gly Phe Val Phe Phe
 225 230 235 240

Gln Arg Ile Asn His Val Arg Lys Val Leu
 245 250

<210> 9
 <211> 1085
 <212> DNA
 <213> Unknown

<220>
 <223> Description of Unknown Organism: rodent; surmised
 Mus musculus

<220>
 <221> CDS
 <222> (1)..(582)

<400> 9

aga ggc cag cct tcc tgc ata atg gcc tac aaa gta gaa aca aag gag	48
Arg Gly Gln Pro Ser Cys Ile Met Ala Tyr Lys Val Glu Thr Lys Glu	
1 5 10 15	
acc aat gaa acc tgc ttg ggc agg aac atc acc tgg gcc tcc aca cct	96
Thr Asn Glu Thr Cys Leu Gly Arg Asn Ile Thr Trp Ala Ser Thr Pro	
20 25 30	
gac cac att cct gac ctt cag atc agt gcg gtg gcc ctc cag cat gag	144
Asp His Ile Pro Asp Leu Gln Ile Ser Ala Val Ala Leu Gln His Glu	
35 40 45	
ggg aat tac tta tgt gag ata aca aca cct gaa ggg aat ttc cat aaa	192
Gly Asn Tyr Leu Cys Glu Ile Thr Thr Pro Glu Gly Asn Phe His Lys	
50 55 60	
gtc tat gac ctc caa gtg ctg gtg ccc cct gaa gta acc tac ttt ctc	240
Val Tyr Asp Leu Gln Val Leu Val Pro Pro Glu Val Thr Tyr Phe Leu	
65 70 75 80	
ggg gaa aat aga act gca gtt tgt gag gca atg gca ggc aag cct gct	288
Gly Glu Asn Arg Thr Ala Val Cys Glu Ala Met Ala Gly Lys Pro Ala	
85 90 95	
gca cag atc tct tgg act cca gat ggg gac tgt gtc act aag agt gag	336
Ala Gln Ile Ser Trp Thr Pro Asp Gly Asp Cys Val Thr Lys Ser Glu	
100 105 110	
tca cac agc aat ggc act gtg act gtc agg agc act tgc cac tgg gag	384
Ser His Ser Asn Gly Thr Val Thr Val Arg Ser Thr Cys His Trp Glu	
115 120 125	
cag aac aat gtg tct gct gtg tcc tgc att gtc tct cat tcg act ggt	432
Gln Asn Asn Val Ser Ala Val Ser Cys Ile Val Ser His Ser Thr Gly	
130 135 140	
aat cag tct ctg tcc ata gaa ctg agt aga ggt acc acc agc acc acc	480
Asn Gln Ser Leu Ser Ile Glu Leu Ser Arg Gly Thr Thr Ser Thr Thr	
145 150 155 160	
cct tcc ttg ctg acc att ctc tac gtg aaa atg gtc ctt ttg ggg att	528
Pro Ser Leu Leu Thr Ile Leu Tyr Val Lys Met Val Leu Leu Gly Ile	
165 170 175	
att ctt ctt aaa gtg gga ttt gct ttc ttc cag aag aga aat gtt acc	576
Ile Leu Leu Lys Val Gly Phe Ala Phe Phe Gln Lys Arg Asn Val Thr	
180 185 190	
aga aca tgaatatcca gatttctgga agctcatttag tctgatgaca cataccagaa	632
Arg Thr	
aacagcattt gtaatcaact ttctcattgg aatccagctt acccgccct gctgtcttca	692
tgtttgttag acactcacct ccaaattctt aactgagaag ggctccgttc taaagggaaat	752

atggggacaa attgtggagc atagacccaaa agaaaggcca tccagagact gccccaccta 812
aggacccatc ccatatacag acaccaaacc cagacactac tgaagatgct gcgaagcggt 872
tgctgacagg agcctgttat agctgtctcc tgagaggctc agccagagcc tgacaaatac 932
ataggtagat gcttgcagcc aacaactgga ctgagcaaaa aatctccatt ggaggagtta 992
gagaaaggac tgaagagggt gaaagggtt gcagccccat aggaagaaca acaatatcaa 1052
ccaaccagat ctcccagagc tcccagggac taa 1085

<210> 10
<211> 194
<212> PRT
<213> Unknown

<220>

<223> Description of Unknown Organism: rodent; surmised
Mus musculus

<400> 10
Arg Gly Gln Pro Ser Cys Ile Met Ala Tyr Lys Val Glu Thr Lys Glu
1 5 10 15

Thr Asn Glu Thr Cys Leu Gly Arg Asn Ile Thr Trp Ala Ser Thr Pro
20 25 30

Asp His Ile Pro Asp Leu Gln Ile Ser Ala Val Ala Leu Gln His Glu
35 40 45

Gly Asn Tyr Leu Cys Glu Ile Thr Thr Pro Glu Gly Asn Phe His Lys
50 55 60

Val Tyr Asp Leu Gln Val Leu Val Pro Pro Glu Val Thr Tyr Phe Leu
65 70 75 80

Gly Glu Asn Arg Thr Ala Val Cys Glu Ala Met Ala Gly Lys Pro Ala
85 90 95

Ala Gln Ile Ser Trp Thr Pro Asp Gly Asp Cys Val Thr Lys Ser Glu
100 105 110

Ser His Ser Asn Gly Thr Val Thr Val Arg Ser Thr Cys His Trp Glu
115 120 125

Gln Asn Asn Val Ser Ala Val Ser Cys Ile Val Ser His Ser Thr Gly
130 135 140

Asn Gln Ser Leu Ser Ile Glu Leu Ser Arg Gly Thr Thr Ser Thr Thr
145 150 155 160

Pro Ser Leu Leu Thr Ile Leu Tyr Val Lys Met Val Leu Leu Gly Ile
165 170 175

Ile Leu Leu Lys Val Gly Phe Ala Phe Phe Gln Lys Arg Asn Val Thr
180 185 190

Arg Thr

<210> 11

cag atc ttg tgg act cca gat gag gac tgt gtc act aag agt aaa tca Gln Ile Leu Trp Thr Pro Asp Glu Asp Cys Val Thr Lys Ser Lys Ser	160	165	170	632
cac aat gac acc atg att gtc agg agc aag tgc cac agg gag aaa aac His Asn Asp Thr Met Ile Val Arg Ser Lys Cys His Arg Glu Lys Asn	175	180	185	680
aat ggc cac agt gtg ttc tgc ttt atc tcc cat ttg act gat aac tgg Asn Gly His Ser Val Phe Cys Phe Ile Ser His Leu Thr Asp Asn Trp	190	195	200	728
att ctc tcc atg gaa cag aat cga ggt aca acc agc atc ctg cct tcc Ile Leu Ser Met Glu Gln Asn Arg Gly Thr Thr Ser Ile Leu Pro Ser	205	210	215	776
ttg ctg agc att ctc tat gtg aaa ctg gct gta act gtt ctc atc gta Leu Leu Ser Ile Leu Tyr Val Lys Leu Ala Val Thr Val Leu Ile Val	225	230	235	824
gga ttt gct ttt ttc cag aag aga aat tat ttc aga gtg cca gaa ggc Gly Phe Ala Phe Phe Gln Lys Arg Asn Tyr Phe Arg Val Pro Glu Gly	240	245	250	872
tcc tgaggagagt ggtctgttgt taagatgaga tttaccacca tctgaaagac Ser				925
atcttgctca ccgcgcagcg tgctgagatt ccgagaagca gccacagaac ctactaggaa				985
gacaaatctg atgtggttgt caatccttcc aatggacctg agtacttcta taaacccgag				1045
tgaggttgtg ctggacccag gagccaggct aggtcatata tggatgttt tgctgcaaga				1105
cctcatggtt tatctacaaa tcctaaattc tttcacttcc agttttaaaa cttttggccc				1165
aagcattttca tccacagcat aacaccttta aagaaaactct cccacggaaa ctgctggttc				1225
catggaatgg aaaattgcaa catggtttac aagacagtgc aaaccaagca gcattccaag				1285
atatgagctt cagaaagtta caggaactgt cttgggacga gaaagaagga ttaaatagtt				1345
ccccatcccc				1354

<210> 12
<211> 278
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown Organism: rodent; surmised
Mus musculus

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<400> 12
Met His Ala Leu Gly Arg Thr Leu Ala Leu Met Leu Leu Ile Phe Ile
-25           -20                   -15                  -10

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Ile Pro Pro Asp Asp Ser Phe Pro Phe Ser Asp Asp Asn Ile Phe Pro
10 15 20

Asp	Gly	Val	Gly	Val	Thr	Met	Glu	Ile	Glu	Ile	Ile	Thr	Pro	Val	Ser
25						30						35			
Val	Gln	Ile	Gly	Ile	Lys	Ala	Gln	Leu	Phe	Cys	His	Pro	Ser	Pro	Ser
40					45				50			55			
Lys	Glu	Ala	Thr	Leu	Arg	Ile	Trp	Glu	Ile	Thr	Pro	Arg	Asp	Trp	Pro
				60				65				70			
Ser	Cys	Arg	Leu	Pro	Tyr	Arg	Ala	Glu	Leu	Gln	Gln	Ile	Ser	Lys	Lys
			75					80				85			
Ile	Cys	Thr	Glu	Arg	Gly	Thr	Thr	Arg	Val	Pro	Ala	His	His	Gln	Ser
			90				95				100				
Ser	Asp	Leu	Pro	Ile	Lys	Ser	Met	Ala	Leu	Lys	His	Asp	Gly	His	Tyr
			105				110			115					
Ser	Cys	Arg	Ile	Glu	Thr	Thr	Asp	Gly	Ile	Phe	Gln	Glu	Arg	His	Ser
			120				125			130			135		
Ile	Gln	Val	Pro	Gly	Glu	Asn	Arg	Thr	Val	Val	Cys	Glu	Ala	Ile	Ala
				140				145				150			
Ser	Lys	Pro	Ala	Met	Gln	Ile	Leu	Trp	Thr	Pro	Asp	Glu	Asp	Cys	Val
				155				160			165				
Thr	Lys	Ser	Lys	Ser	His	Asn	Asp	Thr	Met	Ile	Val	Arg	Ser	Lys	Cys
				170				175			180				
His	Arg	Glu	Lys	Asn	Asn	Gly	His	Ser	Val	Phe	Cys	Phe	Ile	Ser	His
				185				190			195				
Leu	Thr	Asp	Asn	Trp	Ile	Leu	Ser	Met	Glu	Gln	Asn	Arg	Gly	Thr	Thr
				200				205			210			215	
Ser	Ile	Leu	Pro	Ser	Leu	Leu	Ser	Ile	Leu	Tyr	Val	Lys	Leu	Ala	Val
				220				225			230				
Thr	Val	Leu	Ile	Val	Gly	Phe	Ala	Phe	Phe	Gln	Lys	Arg	Asn	Tyr	Phe
				235				240			245				
Arg	Val	Pro	Glu	Gly	Ser										
			250												

<210> 13
<211> 981
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: rodent; surmised
Rattus rattus

<220>
<221> misc_feature
<222> (1)..(981)
<223> n may be a, c, g, or t

<400> 13
atgytntgyt tytggmgnac nwsncaygtn gcngtnytny tnathtgggg ngtnttygcn 60
gcngarwsnw sntgycnnga yaaraaycar acnatgcara ayaaywsnws nacnatgacn 120

gargtnaaya cnacngtntt ygtncaratg ggnaaraarg cnytnyntg ytgyccnwsn 180
athwsnytna cnaargtnat hytnathacn tggacnatha cnytnmgng ncarrccnwsn 240
tgyathathw sntayaargc ngayacnmgn garacncayg arwsnaaytg ywsngaymgn 300
wsnathacnt gggcnwsnac nccngayyt gcncngayy tncarathws ngcngtngcn 360
ytnccarcayg arggnmgnta ywsntgygay athgcngtnc cngayggnaa yttycaraay 420
athtaygayy tncargtnyt ngtncnccn gargtnacnc ayttycnng ngaraaymgn 480
acngcngtnt gygargcnat hgcnngnaa ccngcngcnc arathwsntg gacnccngay 540
ggngaytgyg tngcnaaraa ygarwsncay wsnaayggna cngtnacngt nmgnwsnacn 600
tgycaytggg arcarwsnca ygtnwsgtn gtnttytgyg tngtnwsnca yytnacnacn 660
ggnaaycarw snytnwsnat hgarytnnn mgngngng aycarytny ngnwsntay 720
athcartaya thathccnws nathathath ytnathatha thggntgyat htgyytnytn 780
aarathwsng gntgymgnna rtgyaarytn ccnaarwsng gngcnacncc ngayathgar 840
gargaygara tgcarccnta ygcnwsntay acnaraarw snaayccnyt ntaygayacn 900
gtnacnacna cngargcnca yccngcnwsn carggnaarg tnaayggnc ngaytgyytn 960
acnytnwsng cnatgggnat h 981

<210> 14
<211> 885
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: primate; surmised
Homo sapiens

<220>
<221> misc_feature
<222> (1)..(885)
<223> n may be a, c, g, or t

<400> 14
atgytntgyc cntggmgnac ncnaayyt gnnytnytn tnathytnac nathttyn 60
gtngcngarg cngarggngc ncncarccn aayaaywsny tnatgytnca racnwsnaar 120
garaaycayg cnytngnws nwsnwsnytn tgyatggayg araarcarat hacncaraay 180
taywsnaarg tnytngcnga rgtnaayacn wsntggccng tnaaratggc nacnaaygcn 240
gtnytnygt gyccnccnat hgcnymgn aaytnatha thathacntg ggarathath 300
ytnmgngnc arccnwsntg yacnaargcn tayaaraarg aracnaayga racnaargar 360
acnaaytgya cngaygarmg nathacntgg gtnwsnmgnc cngaycaraa ywsngayyt 420
carathmgna cngtngcnat hacncaygay ggntaytaym gntgyathat ggtacnccn 480
gayggnaayt tycaymgngg ntaycayyt cargtnytn tnaacnccnga rgtnacnytn 540

ttycaraaym gnaaymgnac ncngtntgy aargcngtng cnggnaarcc ngcngcncay 600
athwsntgga thccngargg ngaytgygcn acnaarcarg artaytggs naayggnacn 660
gtjacngtna arwsnacntg ycaytgggar gtncayaayg tnwsnacngt nacntgycay 720
gtnwscnayy tnacnggnaa yaarwsnytn tayathgary tnytnccngt nccnggngcn 780
aaraarathw snaarathat htaywsnath taycayccnt aytaytayta yytngaycay 840
mgnggnathc ayytngtngt ngarwsncar tggynrcara arath 885

<210> 15
<211> 978
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: rodent; surmised
Mus musculus

<220>
<221> misc_feature
<222> (1)..(978)
<223> n may be a, c, g, or t

<400> 15
atgattygt tytggmgnac nwsngcnytn gcngtnytny tnathtgccc ngtnttygtn 60
gcnggnwsnw sntgyacnga yaaraaycar acnacncara ayaaywsnws nwsnccnytn 120
acncargtna ayacnacngt nwsngtncar athggnacna argcnytny ntgytgyt 180
wsnathccny tnacnaargc ngtnytnath acntggatha thaarytnmg nggnytnccn 240
wsntgyacna thgcntayaa rgtngayacn aaracnaayg aracnwsntg yytnggnmgn 300
aayathacnt gggcnwsnac nccngaycay wsncngary tncarathws ngcngtnacn 360
ytnccarcayg arggnacnta yacntgygar acngtnacnc cngarggnaa yttiyaraar 420
aaytaygayy tncargtny ngtncnccn gargtnacnt ayttiyccnga raaraaymgn 480
wsngcngtnt gygargcnat ggcnngnaar ccngcngcnc arathwsntg gwsnccngay 540
ggngaytgyg tnacnacnws ngarwsncay wsnaayggna cngtnacngt nmgnwsnacn 600
tgycaytggg arcaraayaa ygtnwsgay gtnwsntgya thgtnwsnca yytncnggn 660
aaycarwsny tnwsnathga rytnwsnmgn ggnggnaayc arwsnytnmg nccntayath 720
ccntayatha thccnwsnat hathathytn athathathg gntgyathtg yytncnggn 780
athwsngnt tymgnaartg yaarytnccn aarytngarg cnacnwsngc nathgargar 840
gaygaratgc arccntaygc nwsntayacn garaarwsna ayccnytna ygayacngtn 900
acnaargtng argcnttycc ngtnwscar ggngargtna ayggnainga ytgyytnacn 960
ytnwsngcna thggnath 978

<210> 16
 <211> 750
 <212> DNA
 <213> Unknown

<220>
 <223> Description of Unknown Organism: primate; surmised
Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(750)
 <223> n may be a, c, g, or t

<400> 16
 atggnggna arcaratgac ncaraaytay wsnacnatht tygcngargg naayathwsn 60
 carccngtny tnatggayat haaygcngtn ytntgytgyc cnccnathgc nytnmgnaay 120
 ytnathatha thacntggga rathathytn mnggnarc cnwsntgyac naargcntay 180
 aaraargara cnaaygarac naargaracn aaytgyacng tngarmgnat hacntggtn 240
 wsnmgnccng aycaraayws ngayytnar athmgnccng tngayacnac ncaygayggn 300
 taytaymgng gnathgtngt nacnccngay ggnaayttyc aymgngnta ycayytnar 360
 gtnytngtna cnccngargt naayytntty carwsnmgnay ayathacngc ngtnytnyaar 420
 gcngtnacng gnaarcnacn ncncarath wsntggathc cngarggnws nathytnacn 480
 acnaarcarg artaytggg naayggnacn gtnacngtna arwsnacntg yccntgggar 540
 ggncaayaarw snacngtnac ntgycaygtn wsncayytna cnggnaayaa rwsnytnwsn 600
 gtnaarytna aywsnggnyt nmgnacnwsn ggnwsnccng cnytnwsnyt nytnathath 660
 ytntaygtna arytnwsnyt nttygtngtn athytnytna cnacngntt ygtntyyt 720
 carmgnatha aycaygtnmg naargtnytn 750

<210> 17
 <211> 582
 <212> DNA
 <213> Unknown

<220>
 <223> Description of Unknown Organism: rodent; surmised
Mus musculus

<220>
 <221> misc_feature
 <222> (1)..(582)
 <223> n may be a, c, g, or t

<400> 17
 mgnggnarc cnwsntgyat hatggcntay aargtngara cnaargarac naaygaracn 60
 tgyytnngnm gnaayathac ntggcnwsn acnccngayc ayathccnga yytnarath 120
 wsngcngtng cnytnarca ygarggnaay taytntgyg arathacnac nccngarggn 180
 aayttycaya argtnayga yytnargtn ytngtnccnc cngargtnac ntayttyytn 240

ggngaraaym gnacngcngt ntgygargcn atggcnggna arccngcngc ncarathwsn 300
tgacnccng ayggngaytg ygtacnaar wsngarwsnc aywsnaaygg nacngtnacn 360
gtnmgnwsna cntgycaytg ggarcaraay aaygtnwsng cngtnwsntg yathgtnwsn 420
caywsnacng gnaaycarws nytnwsnâth garytnwsnm gnggnacnac nwsnacnacn 480
ccnwsnytny tnacnathyt ntaygtnaar atggtnytny tnggnathat hytnytnaar 540
gtnggnttyg cnttyttyca raarmgnaay gtnacnmgna cn 582

<210> 18
<211> 834
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: rodent; surmised
Mus musculus

<220>
<221> misc_feature
<222> (1)..(834)
<223> n may be a, c, g, or t

<400> 18
atgcaygcny tnggnmgnac nytngcnytn atgytnytna thtthyathac nathytn 60
ccngarwsnw sntgywsngt naarggnmgn gargarathc cnccngayga ywsnttyccn 120
ttywsngayg ayaayathtt yccngayggn gtnggngtna cnatgarat hgarathath 180
acnccngtnw sngtnarat hgnathhaar gcncarytna tytgycaycc nwsnccnwsn 240
aargargcna cnytnmgnat htgggarath acnccnmngn aytggccnws ntgymgnyn 300
ccntaymgng cngarytnca rcarathwsn aaraaratht gyacngarmg nggnacnacn 360
mngtnccng cncaycayca rwsnwsngay ytnccnatha arwsnatggc nytnaarcay 420
gayggncayt aywsntgymg nathgaracn acngayggna thttypcarga rmgnacaywsn 480
athcargtna cngngararaa ymgnacngtn gtntgycaygarg cnathgcnws naarccngcn 540
atgcarathy tntggacncc ngaygargay tgygtnacna arwsnaarws ncayaaygay 600
acnatgathg tnmgnwsnaa rtgycaymgn garaaraaya ayggncayws ngtnttytgy 660
ttyathwsnc ayytnacnga yaaytggath ytnwsnatgg arcaraaymg nggnacnacn 720
wsnathytna cnwsnytny nwsnathytn taygtnaary tngcngtnac ngtnytnath 780
gtnggnttyg cnttyttyca raarmgnaay taytymgng tnccngargg nwsn 834

<210> 19
<211> 1047
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: primate; surmised
Homo sapiens

<220>

<221> CDS

<222> (1)..(1044)

<220>

<221> mat_peptide

<222> (79)..(1044)

<400> 19

atg ctc tgc cct tgg aga act gct aac cta ggg cta ctg ttg att ttg 48
Met Leu Cys Pro Trp Arg Thr Ala Asn Leu Gly Leu Leu Leu Ile Leu
-25 -20 -15

act atc ttc tta gtg gcc gaa gcg gag ggt gct gct caa cca aac aac 96
Thr Ile Phe Leu Val Ala Glu Ala Glu Gly Ala Ala Gln Pro Asn Asn
-10 -5 -1 1 5

tca tta atg ctg caa act agc aag gag aat cat gct tta gct tca agc 144
Ser Leu Met Leu Gln Thr Ser Lys Glu Asn His Ala Leu Ala Ser Ser
10 15 20

agt tta tgt atg gat gaa aaa cag att aca cag aac tac tcg aaa gta 192
Ser Leu Cys Met Asp Glu Lys Gln Ile Thr Gln Asn Tyr Ser Lys Val
25 30 35

ctc gca gaa gtt aac act tca tgg cct gta aag atg gct aca aat gct 240
Leu Ala Glu Val Asn Thr Ser Trp Pro Val Lys Met Ala Thr Asn Ala
40 45 50

gtg ctt tgt tgc cct atc gca tta aga aat ttg atc ata ata aca 288
Val Leu Cys Cys Pro Pro Ile Ala Leu Arg Asn Leu Ile Ile Ile Thr
55 60 65 70

tgg gaa ata atc ctg aga ggc cag cct tcc tgc aca aaa gcc tac agg 336
Trp Glu Ile Ile Leu Arg Gly Gln Pro Ser Cys Thr Lys Ala Tyr Arg
75 80 85

aaa gaa aca aat gag acc aag gaa acc aac tgt act gat gag aga ata 384
Lys Glu Thr Asn Glu Thr Lys Glu Thr Asn Cys Thr Asp Glu Arg Ile
90 95 100

acc tgg gtc tcc aga cct gat cag aat tcg gac ctt cag att cgt cca 432
Thr Trp Val Ser Arg Pro Asp Gln Asn Ser Asp Leu Gln Ile Arg Pro
105 110 115

gtg gcc atc act cat gac ggg tat tac aga tgc ata atg gta aca cct 480
Val Ala Ile Thr His Asp Gly Tyr Tyr Arg Cys Ile Met Val Thr Pro
120 125 130

gat ggg aat ttc cat cgt gga tat cac ctc caa gtg tta gtt aca cct 528
Asp Gly Asn Phe His Arg Gly Tyr His Leu Gln Val Leu Val Thr Pro
135 140 145 150

gaa gtg acc ctg ttt caa aac agg aat aga act gca gta tgc aag gca 576
Glu Val Thr Leu Phe Gln Asn Arg Asn Arg Thr Ala Val Cys Lys Ala
155 160 165

gtt gca ggg aag cca gct gcg cag atc tcc tgg atc cca gag ggc gat 624
Val Ala Gly Lys Pro Ala Ala Gln Ile Ser Trp Ile Pro Glu Gly Asp
170 175 180

tgt gcc act aag caa gaa tac tgg agc aat ggc aca gtg act gtt aag		672	
Cys Ala Thr Lys Gln Glu Tyr Trp Ser Asn Gly Thr Val Thr Val Lys			
185	190	195	
agt aca tgc cac tgg gag gtc cac aat gtg tct acc gtg acc tgc cac		720	
Ser Thr Cys His Trp Glu Val His Asn Val Ser Thr Val Thr Cys His			
200	205	210	
gtc tcc cat ttg act ggc aac aag agt ctg tac ata gag cta ctt cct		768	
Val Ser His Leu Thr Gly Asn Lys Ser Leu Tyr Ile Glu Leu Leu Pro			
215	220	225	230
gtt cca ggt gcc aaa aaa tca gca aaa tta tat att cca tat atc atc		816	
Val Pro Gly Ala Lys Lys Ser Ala Lys Leu Tyr Ile Pro Tyr Ile Ile			
235	240	245	
ctt act att att ttg acc atc gtg gga ttc att ttg ttg ttg aaa		864	
Leu Thr Ile Ile Leu Thr Ile Val Gly Phe Ile Trp Leu Leu Lys			
250	255	260	
gtc aat ggc tgc aga aaa tat aaa ttg aat aaa aca gaa tct act cca		912	
Val Asn Gly Cys Arg Lys Tyr Lys Leu Asn Lys Thr Glu Ser Thr Pro			
265	270	275	
gtt gtt gag gag gat gaa atg cag ccc tat gcc agc tac aca gag aag		960	
Val Val Glu Glu Asp Glu Met Gln Pro Tyr Ala Ser Tyr Thr Glu Lys			
280	285	290	
aac aat cct ctc tat gat act aca aac aag gtg aag gca tct cag gca		1008	
Asn Asn Pro Leu Tyr Asp Thr Thr Asn Lys Val Lys Ala Ser Gln Ala			
295	300	305	310
tta caa agt gaa gtt gac aca gac ctc cat act tta taa		1047	
Leu Gln Ser Glu Val Asp Thr Asp Leu His Thr Leu			
315	320		

<210> 20

<211> 348

<212> PRT

<213> Unknown

<220>

<223> Description of Unknown Organism: primate; surmised
Homo sapiens

<400> 20

Met Leu Cys Pro Trp Arg Thr Ala Asn Leu Gly Leu Leu Leu Ile Leu		
-25	-20	-15

Thr Ile Phe Leu Val Ala Glu Ala Glu Gly Ala Ala Gln Pro Asn Asn			
-10	-5	-1 1	5

Ser Leu Met Leu Gln Thr Ser Lys Glu Asn His Ala Leu Ala Ser Ser		
10	15	20

Ser Leu Cys Met Asp Glu Lys Gln Ile Thr Gln Asn Tyr Ser Lys Val		
25	30	35

Leu Ala Glu Val Asn Thr Ser Trp Pro Val Lys Met Ala Thr Asn Ala		
40	45	50

Val Leu Cys Cys Pro Pro Ile Ala Leu Arg Asn Leu Ile Ile Thr

55	60	65	70
Trp Glu Ile Ile Leu Arg Gly Gln Pro Ser Cys Thr Lys Ala Tyr Arg			
75	80	85	
Lys Glu Thr Asn Glu Thr Lys Glu Thr Asn Cys Thr Asp Glu Arg Ile			
90	95	100	
Thr Trp Val Ser Arg Pro Asp Gln Asn Ser Asp Leu Gln Ile Arg Pro			
105	110	115	
Val Ala Ile Thr His Asp Gly Tyr Tyr Arg Cys Ile Met Val Thr Pro			
120	125	130	
Asp Gly Asn Phe His Arg Gly Tyr His Leu Gln Val Leu Val Thr Pro			
135	140	145	150
Glu Val Thr Leu Phe Gln Asn Arg Asn Arg Thr Ala Val Cys Lys Ala			
155	160	165	
Val Ala Gly Lys Pro Ala Ala Gln Ile Ser Trp Ile Pro Glu Gly Asp			
170	175	180	
Cys Ala Thr Lys Gln Glu Tyr Trp Ser Asn Gly Thr Val Thr Val Lys			
185	190	195	
Ser Thr Cys His Trp Glu Val His Asn Val Ser Thr Val Thr Cys His			
200	205	210	
Val Ser His Leu Thr Gly Asn Lys Ser Leu Tyr Ile Glu Leu Leu Pro			
215	220	225	230
Val Pro Gly Ala Lys Lys Ser Ala Lys Leu Tyr Ile Pro Tyr Ile Ile			
235	240	245	
Leu Thr Ile Ile Ile Leu Thr Ile Val Gly Phe Ile Trp Leu Leu Lys			
250	255	260	
Val Asn Gly Cys Arg Lys Tyr Lys Leu Asn Lys Thr Glu Ser Thr Pro			
265	270	275	
Val Val Glu Glu Asp Glu Met Gln Pro Tyr Ala Ser Tyr Thr Glu Lys			
280	285	290	
Asn Asn Pro Leu Tyr Asp Thr Thr Asn Lys Val Lys Ala Ser Gln Ala			
295	300	305	310
Leu Gln Ser Glu Val Asp Thr Asp Leu His Thr Leu			
315	320		

<210> 21
<211> 1044
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: primate; surmised
Homo sapiens

<220>
<221> misc_feature
<222> (1)..(1044)
<223> n may be a, c, g, or t

<400> 21
atgytntgyc cntggmgnac ngcnaayytn ggnnytnytn tnathytnac nathtyytyn 60
gtngcngarg cngarggngc ngcncarccn aayaaywsny tnatgytnca racnwsnaar 120
garaaycayg cnytngcnws nwsnwsnytn tgyatggayg araarcarat hacncaraay 180
taywsnaarg tnytngcnga rgttaayacn wsntggccng tnaaratggc nacnaaygcn 240
gtnytntgyt gyccnccnat hgcnytnmgn aayytnatha thathacntg ggarathath 300
ytnmgnggnc arccnwsntg yacnaargcn taymagnaarg aracnaayga racnaargar 360
acnaaytgya cngaygarmg nathacntgg gtnwsnmgn cngaycaraa ywsngayytn 420
carathmgnc cngtngcnat hacncaygay ggntaytaym gntgyathat ggtacnccn 480
gayggnaayt tycaymngg ntaycayytn cargtnytn tnaacnccnga rgtnacnytn 540
ttypcaraaym gnaaymgnac ncngtntgy aargcngtng cnggnaarcc ncngcncar 600
athwsntgga thccngargg ngaytgygcn acnaarcarg artaytggws naayggnacn 660
gtnacngtta arwsnacntg ycaytgggar gtncayaayg tnwsnacngt nacntgycay 720
gtnwsncayy tnacnggnaa yaarwsnytn tayathgary tnytncngt ncnggngcn 780
aaraarwsng cnaarytna yathccntay athathytna cnathathat hytnacnath 840
gtnggnttya thtgytnty naargtnaay ggntgymgna artayaaryt naayaaracn 900
garwsnacnc cngtngtnga rgargaygar atgcarccnt aygcnwsnta yacngaraar 960
aayaayccny tntaygayac nacnaayaar gtnaargcnw sncargcnyt ncarwsngar 1020
gtngayacng ayytncayac nytn 1044

<210> 22
<211> 813
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: rodent; surmised
Mus musculus

<220>
<221> CDS
<222> (1)..(810)

<220>
<221> mat_peptide
<222> (76)..(810)

<400> 22
atg cat gct ctg ggg agg att ccg act ttg act ttg ctg atc ttc atc 48
Met His Ala Leu Gly Arg Ile Pro Thr Leu Thr Leu Leu Ile Phe Ile
-25 -20 -15 -10
aat att ttt gtg tct ggg tca agt tgt act gat gag aat caa aca ata 96
Asn Ile Phe Val Ser Gly Ser Ser Cys Thr Asp Glu Asn Gln Thr Ile
-5 -1 1 5

cag aat gac agt tca tct tct ctg aca caa gtt aac act aca atg tct		144	
Gln Asn Asp Ser Ser Ser Ser Leu Thr Gln Val Asn Thr Thr Met Ser			
10	15	20	
gta cag atg gat aaa aag gct ctg ctc tgc tgc ttt tct agt cca ctg		192	
Val Gln Met Asp Lys Lys Ala Leu Leu Cys Cys Phe Ser Ser Pro Leu			
25	30	35	
ata aat gca gta tta atc aca tgg ata ata aaa cac aga cac ctg cct		240	
Ile Asn Ala Val Leu Ile Thr Trp Ile Ile Lys His Arg His Leu Pro			
40	45	50	55
tcc tgc aca ata gca tac aac cta gat aaa aag acc aat gaa acc agc		288	
Ser Cys Thr Ile Ala Tyr Asn Leu Asp Lys Lys Thr Asn Glu Thr Ser			
60	65	70	
tgc ttg ggc agg aac atc acc tgg gcc tcc aca cct gac cac agt cct		336	
Cys Leu Gly Arg Asn Ile Thr Trp Ala Ser Thr Pro Asp His Ser Pro			
75	80	85	
gaa ctt cag atc agt gca gtg gcc ctc cag cat gag ggg act tac aca		384	
Glu Leu Gln Ile Ser Ala Val Ala Leu Gln His Glu Gly Thr Tyr Thr			
90	95	100	
tgt gag ata gta aca cct gaa ggg aat tta gaa aaa gtc tat gac ctc		432	
Cys Glu Ile Val Thr Pro Glu Gly Asn Leu Glu Lys Val Tyr Asp Leu			
105	110	115	
caa gtg ctg gtg ccc cct gag gta acc tac ttt cca ggg aaa aac aga		480	
Gln Val Leu Val Pro Pro Glu Val Thr Tyr Phe Pro Gly Lys Asn Arg			
120	125	130	135
act gca gtc tgt gag gca atg gca ggc aag cct gct gca cag atc tct		528	
Thr Ala Val Cys Glu Ala Met Ala Gly Lys Pro Ala Ala Gln Ile Ser			
140	145	150	
tgg act cca gat ggg gac tgt gtc act aag agt gag tca cac agc aat		576	
Trp Thr Pro Asp Gly Asp Cys Val Thr Lys Ser Glu Ser His Ser Asn			
155	160	165	
ggc act gtg act gtc agg agc acg tgc cac tgg gag cag aac aat gtg		624	
Gly Thr Val Thr Val Arg Ser Thr Cys His Trp Glu Gln Asn Asn Val			
170	175	180	
tct gtt gtg tcc tgc tta gtc tct cat tcg act ggt aat cag tct ctg		672	
Ser Val Val Ser Cys Leu Val Ser His Ser Thr Gly Asn Gln Ser Leu			
185	190	195	
tcc ata gaa ctg agt caa ggt aca atg acc acc ccc cgt tcc ttg ctg		720	
Ser Ile Glu Leu Ser Gln Gly Thr Met Thr Thr Pro Arg Ser Leu Leu			
200	205	210	215
acc att ctc tat gtg aaa atg gcc ctt ttg gtg att att ctt ctt aac		768	
Thr Ile Leu Tyr Val Lys Met Ala Leu Leu Val Ile Ile Leu Leu Asn			
220	225	230	
gta gga ttt gct ttc ttc cag aag aga aat ttt gcc aga aca tga		813	
Val Gly Phe Ala Phe Phe Gln Lys Arg Asn Phe Ala Arg Thr			
235	240	245	

<211> 270
 <212> PRT
 <213> Unknown

 <220>
 <223> Description of Unknown Organism: rodent; surmised
 Mus musculus

 <400> 23
 Met His Ala Leu Gly Arg Ile Pro Thr Leu Thr Leu Leu Ile Phe Ile
 -25 -20 -15 -10

 Asn Ile Phe Val Ser Gly Ser Ser Cys Thr Asp Glu Asn Gln Thr Ile
 -5 -1 1 5

 Gln Asn Asp Ser Ser Ser Leu Thr Gln Val Asn Thr Thr Met Ser
 10 15 20

 Val Gln Met Asp Lys Lys Ala Leu Leu Cys Cys Phe Ser Ser Pro Leu
 25 30 35

 Ile Asn Ala Val Leu Ile Thr Trp Ile Ile Lys His Arg His Leu Pro
 40 45 50 55

 Ser Cys Thr Ile Ala Tyr Asn Leu Asp Lys Lys Thr Asn Glu Thr Ser
 60 65 70

 Cys Leu Gly Arg Asn Ile Thr Trp Ala Ser Thr Pro Asp His Ser Pro
 75 80 85

 Glu Leu Gln Ile Ser Ala Val Ala Leu Gln His Glu Gly Thr Tyr Thr
 90 95 100

 Cys Glu Ile Val Thr Pro Glu Gly Asn Leu Glu Lys Val Tyr Asp Leu
 105 110 115

 Gln Val Leu Val Pro Pro Glu Val Thr Tyr Phe Pro Gly Lys Asn Arg
 120 125 130 135

 Thr Ala Val Cys Glu Ala Met Ala Gly Lys Pro Ala Ala Gln Ile Ser
 140 145 150

 Trp Thr Pro Asp Gly Asp Cys Val Thr Lys Ser Glu Ser His Ser Asn
 155 160 165

 Gly Thr Val Thr Val Arg Ser Thr Cys His Trp Glu Gln Asn Asn Val
 170 175 180

 Ser Val Val Ser Cys Leu Val Ser His Ser Thr Gly Asn Gln Ser Leu
 185 190 195

 Ser Ile Glu Leu Ser Gln Gly Thr Met Thr Thr Pro Arg Ser Leu Leu
 200 205 210 215

 Thr Ile Leu Tyr Val Lys Met Ala Leu Leu Val Ile Ile Leu Leu Asn
 220 225 230

 Val Gly Phe Ala Phe Phe Gln Lys Arg Asn Phe Ala Arg Thr
 235 240 245

<210> 24
 <211> 810
 <212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: rodent; surmised
Mus musculus

<220>

<221> misc_feature

<222> (1)..(810)

<223> n may be a, c, g, or t

<400> 24

atgcaygcny tnggnmgnat hccnacnytn acnytnytna thttyathaa yathttygtn 60
wsnggnwsnw sntgyacnga ygaraaycar acnathcara ayygaywsnws nwsnwsnytn 120
acncargtna ayacnacnat gwsngtncar atggayaara argcnytnyt ntgytgytty 180
wsnwsnccny tnathaaygc ngtnytnath acntggatha thaarcaymg ncayytnccn 240
wsntgyacna thgcntayaa yytngayaar aaracnaayg aracnwsntg yytnggnmgn 300
aayathacnt gggcnwsnac nccngaycay wsncngary tncarathws ngcngtngcn 360
ytncarcayg arggnacnta yacntgygar athgtacnacn cngarggnaa yytngaraar 420
gtntaygayy tncargtnyt ngtnccncn gargtnacnt ayttycnng naaraaymgn 480
acngcngtnt gygargcnat ggcnggnaar ccngcngcnc arathwsntg gacnccngay 540
ggngaytgyg tnacnaarws ngarwsncay wsnaayggna cngtnacngt nmgnwsnacn 600
tgycaytggg arcaraayaa ygtwnsngtn gtnwsntgyy tngtnwsnca ywsnacnggn 660
aaycarwsny tnwsnathga rytnwsncar ggnacnatga cnacnccnmg nwsnytnytn 720
acnathytn aygtnaarat ggcnytnytn gtnathathy tnytnaaygt ngnttygcn 780
ttyttypcara armgnaaytt ygcnmgnacn 810

<210> 25

<211> 34

<212> PRT

<213> Mus musculus

<400> 25

Met	Phe	Cys	Phe	Trp	Arg	Thr	Ser	Ala	Leu	Ala	Val	Leu	Leu	Ile	Trp
1				5					10					15	
Gly	Val	Phe	Val	Ala	Gly	Ser	Ser	Cys	Thr	Asp	Lys	Asn	Gln	Thr	Thr
				20				25					30		
Gln	Asn														

<210> 26

<211> 34

<212> PRT

<213> Rattus rattus

<400> 26

Met	Leu	Cys	Phe	Trp	Arg	Thr	Ser	His	Val	Ala	Val	Leu	Leu	Ile	Trp
1				5					10					15	
Gly	Val	Phe	Ala	Ala	Glu	Ser	Ser	Cys	Pro	Asp	Lys	Asn	Gln	Thr	Met

20

25

30

Gln Asn

<210> 27

<211> 60

<212> PRT

<213> Homo sapiens

<400> 27

Met Leu Cys Pro Trp Arg Thr Ala Asn Leu Gly Leu Leu Leu Ile Leu
1 5 10 15
Thr Ile Phe Leu Val Ala Glu Ala Glu Gly Ala Ala Gln Pro Asn Asn
20 25 30
Ser Leu Met Leu Gln Thr Ser Lys Glu Asn His Ala Leu Ala Ser Ser
35 40 45
Ser Leu Cys Met Asp Glu Lys Gln Ile Thr Gln Asn
50 55 60

<210> 28

<211> 9

<212> PRT

<213> Homo sapiens

<400> 28

Met Gly Gly Lys Gln Met Thr Gln Asn
1 5

<210> 29

<211> 59

<212> PRT

<213> Mus musculus

<400> 29

Asn Ser Ser Ser Pro Leu Thr Gln Val Asn Thr Thr Val Ser Val Gln
1 5 10 15
Ile Gly Thr Lys Ala Leu Leu Cys Cys Phe Ser Ile Pro Leu Thr Lys
20 25 30
Ala Val Leu Ile Thr Trp Ile Ile Lys Leu Arg Gly Leu Pro Ser Cys
35 40 45
Thr Ile Ala Tyr Lys Val Asp Thr Lys Thr Asn
50 55

<210> 30

<211> 59

<212> PRT

<213> Rattus rattus

<400> 30

Asn Ser Ser Thr Met Thr Glu Val Asn Thr Thr Val Phe Val Gln Met
1 5 10 15
Gly Lys Lys Ala Leu Leu Cys Cys Pro Ser Ile Ser Leu Thr Lys Val
20 25 30
Ile Leu Ile Thr Trp Thr Ile Thr Leu Arg Gly Gln Pro Ser Cys Ile
35 40 45
Ile Ser Tyr Lys Ala Asp Thr Arg Glu Thr His
50 55

<210> 31

<211> 18
 <212> PRT
 <213> Homo sapiens

<400> 31
 Arg Gly Gln Pro Ser Cys Ile Met Ala Tyr Lys Val Glu Thr Lys Glu
 1 5 10 15
 Thr Asn

<210> 32
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 32
 Tyr Ser Lys Val Leu Ala Glu Val Asn Thr Ser Trp Pro Val Lys Met
 1 5 10 15
 Ala Thr Asn Ala Val Leu Cys Cys Pro Pro Ile Ala Leu Arg Asn Leu
 20 25 30
 Ile Ile Ile Thr Trp Glu Ile Ile Leu Arg Gly Gln Pro Ser Cys Thr
 35 40 45
 Lys Ala Tyr Lys Lys Glu Thr Asn Glu Thr Lys
 50 55

<210> 33
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 33
 Tyr Ser Thr Ile Phe Ala Glu Gly Asn Ile Ser Gln Pro Val Leu Met
 1 5 10 15
 Asp Ile Asn Ala Val Leu Cys Cys Pro Pro Ile Ala Leu Arg Asn Leu
 20 25 30
 Ile Ile Ile Thr Trp Glu Ile Ile Leu Arg Gly Gln Pro Ser Cys Thr
 35 40 45
 Lys Ala Tyr Lys Lys Glu Thr Asn Glu Thr Lys
 50 55

<210> 34
 <211> 60
 <212> PRT
 <213> Mus musculus

<400> 34
 Glu Thr Ser Cys Leu Gly Arg Asn Ile Thr Trp Ala Ser Thr Pro Asp
 1 5 10 15
 His Ser Pro Glu Leu Gln Ile Ser Ala Val Thr Leu Gln His Glu Gly
 20 25 30
 Thr Tyr Thr Cys Glu Thr Val Thr Pro Glu Gly Asn Phe Glu Lys Asn
 35 40 45
 Tyr Asp Leu Gln Val Leu Val Pro Pro Glu Val Thr
 50 55 60

<210> 35
 <211> 60
 <212> PRT
 <213> Rattus rattus

<400> 35
Glu Ser Asn Cys Ser Asp Arg Ser Ile Thr Trp Ala Ser Thr Pro Asp
1 5 10 15
Leu Ala Pro Asp Leu Gln Ile Ser Ala Val Ala Leu Gln His Glu Gly
20 25 30
Arg Tyr Ser Cys Asp Ile Ala Val Pro Asp Gly Asn Phe Gln Asn Ile
35 40 45
Tyr Asp Leu Gln Val Leu Val Pro Pro Glu Val Thr
50 55 60

<210> 36
<211> 59
<212> PRT
<213> Mus musculus

<400> 36
Glu Thr Cys Leu Gly Arg Asn Ile Thr Trp Ala Ser Thr Pro Asp His
1 5 10 15
Ile Pro Asp Leu Gln Ile Ser Ala Val Ala Leu Gln His Glu Gly Asn
20 25 30
Tyr Leu Cys Glu Ile Thr Thr Pro Glu Gly Asn Phe His Lys Val Tyr
35 40 45
Asp Leu Gln Val Leu Val Pro Pro Glu Val Thr
50 55

<210> 37
<211> 60
<212> PRT
<213> Homo sapiens

<400> 37
Glu Thr Asn Cys Thr Asp Glu Arg Ile Thr Trp Val Ser Arg Pro Asp
1 5 10 15
Gln Asn Ser Asp Leu Gln Ile Arg Thr Val Ala Ile Thr His Asp Gly
20 25 30
Tyr Tyr Arg Cys Ile Met Val Thr Pro Asp Gly Asn Phe His Arg Gly
35 40 45
Tyr His Leu Gln Val Leu Val Thr Pro Glu Val Thr
50 55 60

<210> 38
<211> 60
<212> PRT
<213> Homo sapiens

<400> 38
Glu Thr Asn Cys Thr Val Glu Arg Ile Thr Trp Val Ser Arg Pro Asp
1 5 10 15
Gln Asn Ser Asp Leu Gln Ile Arg Pro Val Asp Thr Thr His Asp Gly
20 25 30
Tyr Tyr Arg Gly Ile Val Val Thr Pro Asp Gly Asn Phe His Arg Gly
35 40 45
Tyr His Leu Gln Val Leu Val Thr Pro Glu Val Asn
50 55 60

<210> 39
<211> 59
<212> PRT
<213> Mus musculus

<400> 39
Tyr Phe Pro Glu Lys Asn Arg Ser Ala Val Cys Glu Ala Met Ala Gly
1 5 10 15
Lys Pro Ala Ala Gln Ile Ser Trp Ser Pro Asp Gly Asp Cys Val Thr
20 25 30
Thr Ser Glu Ser His Ser Asn Gly Thr Val Thr Val Arg Ser Thr Cys
35 40 45
His Trp Glu Gln Asn Asn Val Ser Asp Val Ser
50 55

<210> 40
<211> 59
<212> PRT
<213> Rattus rattus

<400> 40
His Phe Pro Gly Glu Asn Arg Thr Ala Val Cys Glu Ala Ile Ala Gly
1 5 10 15
Lys Pro Ala Ala Gln Ile Ser Trp Thr Pro Asp Gly Asp Cys Val Ala
20 25 30
Lys Asn Glu Ser His Ser Asn Gly Thr Val Thr Val Arg Ser Thr Cys
35 40 45
His Trp Glu Gln Ser His Val Ser Val Val Phe
50 55

<210> 41
<211> 59
<212> PRT
<213> Mus musculus

<400> 41
Tyr Phe Leu Gly Glu Asn Arg Thr Ala Val Cys Glu Ala Met Ala Gly
1 5 10 15
Lys Pro Ala Ala Gln Ile Ser Trp Thr Pro Asp Gly Asp Cys Val Thr
20 25 30
Lys Ser Glu Ser His Ser Asn Gly Thr Val Thr Val Arg Ser Thr Cys
35 40 45
His Trp Glu Gln Asn Asn Val Ser Ala Val Ser
50 55

<210> 42
<211> 59
<212> PRT
<213> Homo sapiens

<400> 42
Leu Phe Gln Asn Arg Asn Arg Thr Ala Val Cys Lys Ala Val Ala Gly
1 5 10 15
Lys Pro Ala Ala His Ile Ser Trp Ile Pro Glu Gly Asp Cys Ala Thr
20 25 30
Lys Gln Glu Tyr Trp Ser Asn Gly Thr Val Thr Val Lys Ser Thr Cys
35 40 45
His Trp Glu Val His Asn Val Ser Thr Val Thr
50 55

<210> 43
<211> 59
<212> PRT
<213> Homo sapiens

<400> 43
Leu Phe Gln Ser Arg Asn Ile Thr Ala Val Cys Lys Ala Val Thr Gly
1 5 10 15
Lys Pro Ala Ala Gln Ile Ser Trp Ile Pro Glu Gly Ser Ile Leu Ala
20 25 30
Thr Lys Gln Glu Tyr Trp Gly Asn Gly Thr Val Thr Val Lys Ser Thr
35 40 45
Cys Pro Trp Glu Gly His Lys Ser Thr Val Thr
50 55

<210> 44
<211> 59
<212> PRT
<213> Mus musculus

<400> 44
Cys Ile Val Ser His Leu Thr Gly Asn Gln Ser Leu Ser Ile Glu Leu
1 5 10 15
Ser Arg Gly Gly Asn Gln Ser Leu Arg Pro Tyr Ile Pro Tyr Ile Ile
20 25 30
Pro Ser Ile Ile Ile Leu Ile Ile Ile Gly Cys Ile Cys Leu Leu Lys
35 40 45
Ile Ser Gly Phe Arg Lys Cys Lys Leu Pro Lys
50 55

<210> 45
<211> 60
<212> PRT
<213> Rattus rattus

<400> 45
Cys Val Val Ser His Leu Thr Thr Gly Asn Gln Ser Leu Ser Ile Glu
1 5 10 15
Leu Gly Arg Gly Gly Asp Gln Leu Leu Gly Ser Tyr Ile Gln Tyr Ile
20 25 30
Ile Pro Ser Ile Ile Ile Leu Ile Ile Ile Gly Cys Ile Cys Leu Leu
35 40 45
Lys Ile Ser Gly Cys Arg Lys Cys Lys Leu Pro Lys
50 55 60

<210> 46
<211> 52
<212> PRT
<213> Mus musculus

<400> 46
Cys Ile Val Ser His Ser Thr Gly Asn Gln Ser Leu Ser Ile Glu Leu
1 5 10 15
Ser Arg Gly Thr Thr Ser Thr Thr Pro Ser Leu Leu Thr Ile Leu Tyr
20 25 30
Val Lys Met Val Leu Leu Gly Ile Ile Leu Leu Lys Val Gly Phe Ala
35 40 45
Phe Phe Gln Lys
50

<210> 47
<211> 50
<212> PRT
<213> Homo sapiens

<400> 47
Cys His Val Ser His Leu Thr Gly Asn Lys Ser Leu Tyr Ile Glu Leu
1 5 10 15
Leu Pro Val Pro Gly Ala Lys Lys Ile Ser Lys Ile Ile Tyr Ser Ile
20 25 30
Tyr His Pro Tyr Tyr Tyr Tyr Leu Asp His Arg Gly Ile His Leu Val
35 40 45
Val Glu
50

<210> 48
<211> 55
<212> PRT
<213> Homo sapiens

<400> 48
Cys His Val Ser His Leu Thr Gly Asn Lys Ser Leu Ser Val Lys Leu
1 5 10 15
Asn Ser Gly Leu Arg Thr Ser Gly Ser Pro Ala Leu Ser Leu Leu Ile
20 25 30
Ile Leu Tyr Val Lys Leu Ser Leu Phe Val Val Ile Leu Val Thr Thr
35 40 45
Gly Phe Val Phe Phe Gln Arg
50 55

<210> 49
<211> 55
<212> PRT
<213> Mus musculus

<400> 49
Leu Glu Ala Thr Ser Ala Ile Glu Glu Asp Glu Met Gln Pro Tyr Ala
1 5 10 15
Ser Tyr Thr Glu Lys Ser Asn Pro Leu Tyr Asp Thr Val Thr Lys Val
20 25 30
Glu Ala Phe Pro Val Ser Gln Gly Glu Val Asn Gly Thr Asp Cys Leu
35 40 45
Thr Leu Ser Ala Ile Gly Ile
50 55

<210> 50
<211> 55
<212> PRT
<213> Rattus rattus

<400> 50
Ser Gly Ala Thr Pro Asp Ile Glu Glu Asp Glu Met Gln Pro Tyr Ala
1 5 10 15
Ser Tyr Thr Glu Lys Ser Asn Pro Leu Tyr Asp Thr Val Thr Thr
20 25 30
Glu Ala His Pro Ala Ser Gln Gly Lys Val Asn Gly Thr Asp Cys Leu
35 40 45
Thr Leu Ser Ala Met Gly Ile
50 55

<210> 51
<211> 6
<212> PRT
<213> Mus musculus

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<400> 51
Arg Asn Val Thr Arg Thr
 1           5

<210> 52
<211> 7
<212> PRT
<213> Homo sapiens

<400> 52
Ser Gln Trp Leu Gln Lys Ile
 1           5

<210> 53
<211> 8
<212> PRT
<213> Homo sapiens

<400> 53
Ile Asn His Val Arg Lys Val Leu
 1           5

<210> 54
<211> 24
<212> PRT
<213> Homo sapiens

<400> 54
Met Gly Gly Lys Gln Met Thr Gln Asn Tyr Ser Thr Ile Phe Ala Glu
 1           5           10          15
Gly Asn Ile Ser Gln Pro Val Leu
 20

<210> 55
<211> 50
<212> PRT
<213> Mus musculus

<400> 55
Met His Ala Leu Gly Arg Ile Pro Thr Leu Thr Leu Leu Ile Phe Ile
 1           5           10          15
Asn Ile Phe Val Ser Gly Ser Ser Cys Thr Asp Glu Asn Gln Thr Ile
 20          25          30
Gln Asn Asp Ser Ser Ser Ser Leu Thr Gln Val Asn Thr Thr Met Ser
 35          40          45
Val Gln
 50

<210> 56
<211> 50
<212> PRT
<213> Homo sapiens

<400> 56
Met Asp Ile Asn Ala Val Leu Cys Cys Pro Pro Ile Ala Leu Arg Asn
 1           5           10          15
Leu Ile Ile Ile Thr Trp Glu Ile Ile Leu Arg Gly Gln Pro Ser Cys
 20          25          30
Thr Lys Ala Tyr Lys Lys Glu Thr Asn Glu Thr Lys Glu Thr Asn Cys

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Thr Val
50

<210> 57
<211> 23
<212> PRT
<213> Mus musculus

<400> 57
Arg Gly Gln Pro Ser Cys Ile Met Ala Tyr Lys Val Glu Thr Lys Glu
1 5 10 15
Thr Asn Glu Thr Cys Leu Gly
20

<210> 58
<211> 49
<212> PRT
<213> Mus musculus

<400> 58
Met Asp Lys Lys Ala Leu Leu Cys Cys Phe Ser Ser Pro Leu Ile Asn
1 5 10 15
Ala Val Leu Ile Thr Trp Ile Ile Lys His Arg His Leu Pro Ser Cys
20 25 30
Thr Ile Ala Tyr Asn Leu Asp Lys Lys Thr Asn Glu Thr Ser Cys Leu
35 40 45
Gly

<210> 59
<211> 50
<212> PRT
<213> Homo sapiens

<400> 59
Glu Arg Ile Thr Trp Val Ser Arg Pro Asp Gln Asn Ser Asp Leu Gln
1 5 10 15
Ile Arg Pro Val Asp Thr Thr His Asp Gly Tyr Tyr Arg Gly Ile Val
20 25 30
Val Thr Pro Asp Gly Asn Phe His Arg Gly Tyr His Leu Gln Val Leu
35 40 45
Val Thr
50

<210> 60
<211> 50
<212> PRT
<213> Mus musculus

<400> 60
Arg Asn Ile Thr Trp Ala Ser Thr Pro Asp His Ile Pro Asp Leu Gln
1 5 10 15
Ile Ser Ala Val Ala Leu Gln His Glu Gly Asn Tyr Leu Cys Glu Ile
20 25 30
Thr Thr Pro Glu Gly Asn Phe His Lys Val Tyr Asp Leu Gln Val Leu
35 40 45
Val Pro
50

<210> 61
<211> 50
<212> PRT
<213> Mus musculus

<400> 61
Arg Asn Ile Thr Trp Ala Ser Thr Pro Asp His Ser Pro Glu Leu Gln
1 5 10 15
Ile Ser Ala Val Ala Leu Gln His Glu Gly Thr Tyr Thr Cys Glu Ile
20 25 30
Val Thr Pro Glu Gly Asn Leu Glu Lys Val Tyr Asp Leu Gln Val Leu
35 40 45
Val Pro
50

<210> 62
<211> 50
<212> PRT
<213> Homo sapiens

<400> 62
Pro Glu Val Asn Leu Phe Gln Ser Arg Asn Ile Thr Ala Val Cys Lys
1 5 10 15
Ala Val Thr Gly Lys Pro Ala Ala Gln Ile Ser Trp Ile Pro Glu Gly
20 25 30
Ser Ile Leu Ala Thr Lys Gln Glu Tyr Trp Gly Asn Gly Thr Val Thr
35 40 45
Val Lys
50

<210> 63
<211> 49
<212> PRT
<213> Mus musculus

<400> 63
Pro Glu Val Thr Tyr Phe Leu Gly Glu Asn Arg Thr Ala Val Cys Glu
1 5 10 15
Ala Met Ala Gly Lys Pro Ala Ala Gln Ile Ser Trp Thr Pro Asp Gly
20 25 30
Asp Cys Val Thr Lys Ser Glu Ser His Ser Asn Gly Thr Val Thr Val
35 40 45
Arg

<210> 64
<211> 49
<212> PRT
<213> Mus musculus

<400> 64
Pro Glu Val Thr Tyr Phe Pro Gly Lys Asn Arg Thr Ala Val Cys Glu
1 5 10 15
Ala Met Ala Gly Lys Pro Ala Ala Gln Ile Ser Trp Thr Pro Asp Gly
20 25 30
Asp Cys Val Thr Lys Ser Glu Ser His Ser Asn Gly Thr Val Thr Val
35 40 45
Arg

<210> 65
<211> 49
<212> PRT
<213> Homo sapiens

<400> 65
Ser Thr Cys Pro Trp Glu Gly His Lys Ser Thr Val Thr Cys His Val
1 5 10 15
Ser His Leu Thr Gly Asn Lys Ser Leu Ser Val Lys Leu Asn Ser Gly
20 25 30
Leu Arg Thr Ser Gly Ser Pro Ala Leu Ser Leu Leu Ile Ile Leu Tyr
35 40 45
Val

<210> 66
<211> 47
<212> PRT
<213> Mus musculus

<400> 66
Ser Thr Cys His Trp Glu Gln Asn Asn Val Ser Ala Val Ser Cys Ile
1 5 10 15
Val Ser His Ser Thr Gly Asn Gln Ser Leu Ser Ile Glu Leu Ser Arg
20 25 30
Gly Thr Thr Ser Thr Thr Pro Ser Leu Leu Thr Ile Leu Tyr Val
35 40 45

<210> 67
<211> 47
<212> PRT
<213> Mus musculus

<400> 67
Ser Thr Cys His Trp Glu Gln Asn Asn Val Ser Val Val Ser Cys Leu
1 5 10 15
Val Ser His Ser Thr Gly Asn Gln Ser Leu Ser Ile Glu Leu Ser Gln
20 25 30
Gly Thr Met Thr Thr Pro Arg Ser Leu Leu Thr Ile Leu Tyr Val
35 40 45

<210> 68
<211> 27
<212> PRT
<213> Homo sapiens

<400> 68
Lys Leu Ser Leu Phe Val Val Ile Leu Val Thr Thr Gly Phe Val Phe
1 5 10 15
Phe Gln Arg Ile Asn His Val Arg Lys Val Leu
20 25

<210> 69
<211> 25
<212> PRT
<213> Mus musculus

<400> 69
Lys Met Val Leu Leu Gly Ile Ile Leu Leu Lys Val Gly Phe Ala Phe

1 5 10 15
Phe Gln Lys Arg Asn Val Thr Arg Thr
20 25

<210> 70

<211> 25

<212> PRT

<213> Mus musculus

<400> 70

Lys Met Ala Leu Leu Val Ile Ile Leu Leu Asn Val Gly Phe Ala Phe
1 5 10 15
Phe Gln Lys Arg Asn Phe Ala Arg Thr
20 25